

CLAIMS

1. A fuel sealing structure comprising a container for storing fuel and having an opening part, a closure attached to the opening part of said container, and an annular packing interposed in a compressed condition between an annular sealing surface of said opening part of said container and an annular sealing surface of said closure, wherein

said sealing surfaces of said container and closure each include an annular first region and an annular second region disposed radially inside or outside of said first region, and a distance between said second regions of said two sealing surfaces is shorter than that between said first regions,

said packing includes a first sealing part sandwiched between said first regions of said two sealing surfaces and a second sealing part sandwiched between said second regions of said two sealing surfaces, said first and second sealing parts are, in their compressed condition, interposed between said sealing surfaces, said second sealing part is smaller in thickness than said first sealing part in a natural condition, and this difference in thickness is larger than the difference between said distance between said first regions and said distance between said second regions.

2. A fuel sealing structure according to claim 1, wherein a compression ratio of said second sealing part is smaller than that of said first sealing part when said closure is in an attached condition.

3. A fuel sealing structure according to claim 1, wherein said first sealing part is located radially inside of said second sealing part.

4. A fuel sealing structure according to claim 1, wherein one of said sealing surfaces of said container and closure is a plane with said first and second regions made flush with each other, and the other sealing surface includes a step at a boundary between said first and second regions,

one surface of said packing is a plane corresponding to said one sealing surface, and the other surface includes a step corresponding to the other sealing surface.

5. A fuel sealing structure according to claim 1, wherein an annular projection is formed on one of said sealing surface of said container and said sealing surface of said closure, a top surface of said projection is provided as said second region, a radial inside and a radial outside of said projection in said one sealing surface are provided as said first regions, the other sealing surface includes said second region and said first regions disposed radially inside and outside of said second region on a same plane in correspondence to one sealing surface, and said packing includes said thin second sealing part corresponding to said projection and said thick first sealing parts located radially inside and outside of said second sealing part.

6. A fuel sealing structure comprising a container for storing fuel and having an opening part, a closure attached to the opening part of said container, and an annular packing interposed in a compressed condition between an annular sealing surface of said opening part of said container and an annular sealing surface of said closure, wherein

an annular elastically deformable permeation restraining plate having a lower fuel permeability than material of said packing is embedded in said packing, said permeation restraining plate extends radially of said packing, a distance between said permeation restraining plate and one surface of said packing is shorter than that between said permeation restraining plate and the other surface of said packing at a certain annular part but a distance between said permeation restraining plate and the other surface of said packing is shorter than that between said permeation restraining plate and said one surface of said packing at other annular part.

7. A fuel sealing structure according to claim 6, wherein both surfaces of said packing are planes and have a uniform thickness, and said permeation restraining plate is inclined at a surface connecting said certain annular part and the other annular part together.